TruPortal™

Access control that easily integrates into the modern world

truPortal

Introduction

TruPortal™ access control solutions have been engineered and designed to install quickly and easily right out of the box. These units are ideal for small- to mid-size applications, with a user-friendly Installation Wizard feature to assist with each step. We've made configuring TruPortal solutions simple and efficient for you, and intuitive and convenient for your customers.

This quick start guide provides easy-to-follow instructions to get your installation started. For more detailed information, refer to the user guide included on the product disc.

Base System Components

- TruPortal System Controller Board with integrated power supply and standby battery charger, installed in an enclosure
- TP-SYS-2D2R only: Two T-100 series readers (with installation sheet) and five credentials
- TruPortal System Controller Quick Reference with detailed information about the hardware
- Quick Start Guide
- CD with Installation Wizard, Panel Upgrade Wizard, Import/Export Wizard, important release notes, and additional hardware and software documentation
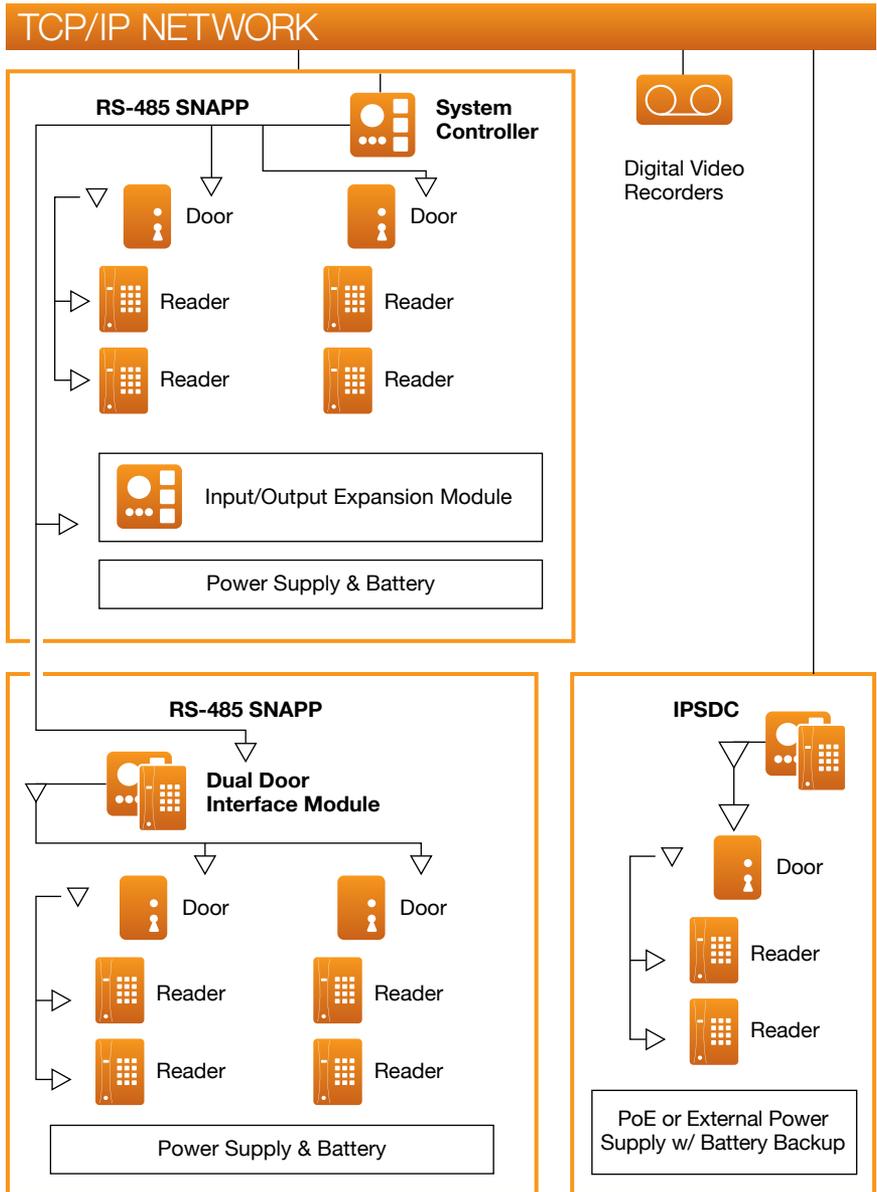
Software Prerequisites:
- Compatible Web Browser (Windows: Internet Explorer, Firefox, Chrome; Macintosh OS X: Safari, Firefox, Chrome)
- Adobe Flash Player 11.2 or higher
- Bonjour print services and Microsoft .NET 4.5 framework
- See release notes for full details

Installer-Provided Items:

- Door hardware and card readers (only Wiegand readers supported)
- 12V Backup Battery for the System Controller enclosure and each Add-on enclosure
- Power for Base System Door Strikes
- Wiring Infrastructure *(RS-485: Belden 9842 recommended; Readers: 22 Gauge, 6 Conductor, Shielded recommended)*

TruPortal™ System Architecture

TCP/IP NETWORK

RS-485 SNAPP

System Controller

Door

Door

Reader

Reader

Reader

Reader

Input/Output Expansion Module

Power Supply & Battery

Digital Video Recorders

RS-485 SNAPP

Dual Door Interface Module

Door

Door

Reader

Reader

Reader

Reader

Power Supply & Battery

IPSDC

Door

Reader

Reader

PoE or External Power Supply w/ Battery Backup

Note: Use of PoE configuration has not been evaluated by UL.

STEP 1   Install Hardware

1.1   Mount all enclosures and connect all door hardware

System & Door Controllers   **Door**   **Reader**   **Reader**
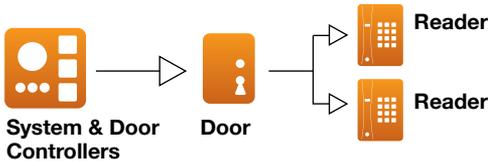
- For more detailed installation instructions, refer to the Hardware Quick Reference Guide for each SKU

- Keep System Controller and add-ons powered off while connecting readers and door hardware

- Reader wiring will depend on reader type selected — refer to reader documentation for details

- Optional I/O boards should be wired at this time

- Refer to the circuit board overlays for wiring locations

- For IP-based 1-door add-ons (IPSDCs), set the DIP switches prior to making any wiring connections

- Make note of serial numbers and locations of readers and door controllers *(See the TruPortal™ Software User Guide for template)*

1.2 Connect RS-485 bus between System Controller and RS-485 based Add-ons

RS-485 Bus

System Controller

Door Controller
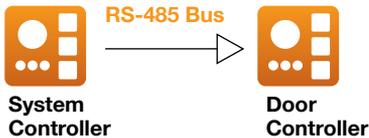
- There are four independent RS-485 buses. You can use any or all of the four buses. (31 2-door add-ons maximum; 8 I/O add-ons maximum; 24 modules per bus maximum)

- Using multiple buses limits the failure scope in cases of individual bus outages

- Maximum distance for each bus is 4000 feet (1200 meters)

- Refer to Quick Reference documents and to wiring diagram on panel door for additional details

Caution: *Do not power add-ons from the System Controller via the RS-485 bus. Only connect A+, B-, and 0V between the System Controller and the add-ons.*

1.3   Connect network cable to System Controller

**Ethernet Port 1
Network Socket**   **Network Cable**
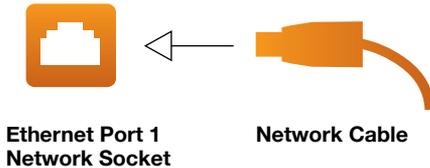
Default method *(requires DHCP during initial setup and requires use of "Discovery and Installation Wizard"):*

• Connect network cable to Ethernet Port 1 using standard network cable (no crossover cable required)

• Connect controller and PC to network switch

• Make sure PC is configured for DHCP or has a static IP address that is compatible with the infrastructure

• Controller will receive an initial Ethernet Port 1 IP address via DHCP

Direct-connect method *(does not rely on DHCP; "Discovery and Installation Wizard" use optional):*

• Directly connect PC to Ethernet Port 2 using a standard network cable (no crossover cable required)

• Ethernet Port 2 is factory-configured for a fixed address of 169.254.1.200

• Make sure PC is configured for DHCP or a static IP of 169.254.1.1 (in case of DHCP, PC will self-assign a 169.254.* address)

• Use Ethernet Port 2 only until the final IP address has been assigned to Ethernet Port 1 via step 2.2

1.4 Power up System Controller, connect battery and let boot completely

Power Up   **Connect Battery**   **Boot for 2–3 Minutes**
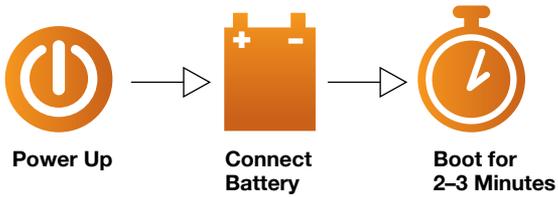
• Connect AC power cable to AC input terminals

• Connect to available non-switched AC power source

2.1 Run "Discovery and Installation Wizard"

- You can also use the "Direct-connect method" from step 1.3 and then login via your Web browser to http://169.254.1.200 to complete step 2.2

- Default username and password for either method is "admin" and "demo"

- Insert CD into PC and double-click on "Start.hta" if CD does not Autorun

- If necessary, install .NET 4.5 Framework and Bonjour prerequisites (a reboot may be required), then click on the "Discovery and Installation Wizard" icon

2.2 Change IP address settings (DHCP to Fixed)

- The "Discovery and Installation Wizard" will identify the System Controller connected to the local network or directly to the PC. IP door controllers and other add-ons are not discoverable with this tool. See step 2.3

- (Recommended) Change the default password for the Administrator account

- Synchronize the date and time on the System Controller with the PC and finalize IP Networking settings. (Note: static IP is recommended in most cases)

- If the "Direct-connect method" was used: After network settings have been applied, remove the connection to Ethernet Port 2. Your panel is now accessible by any PC on your network via Ethernet Port 1

- Reboot the System Controller after IP settings have changed

To avoid IP address conflicts and other issues, consult with the site network administrator to decide how network settings should be configured.

2.3   Configure Networking on IP-based 1-Door Add-ons

Before you start:

- All IPSDCs have the same default IP address of 192.168.6.6. During initial setup, only connect one IPSDC at a time to the network to avoid addressing conflicts
- Make sure your PC/laptop will be able to connect to 192.168.6.6
- Refer to the TruPortal™ IPSDC Quick Reference for additional details

If you are using PoE (Power over Ethernet):

- Connect network cable between IPSDC connector J10 and your PoE-enabled network switch
- Connect your PC/Laptop to the same local network

If you are not using PoE:

- Connect IPSDC and PC/laptop to the same local network (e.g. same switch)
- Alternatively, connect network cable directly between IPSDC connector J10 and your PC/laptop (crossover cable not required)
- Provide 24VDC to the IPSDC via connector J8
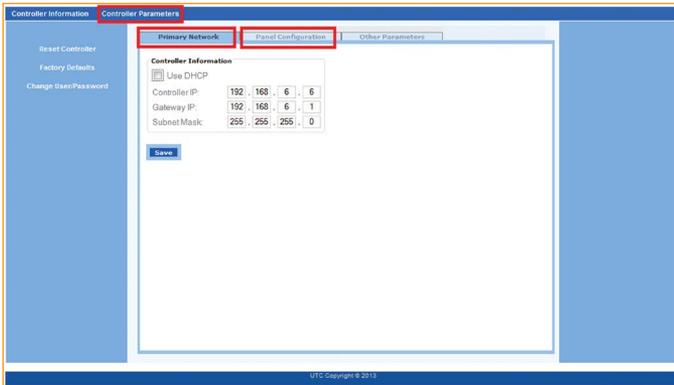
Use the Integrated Configuration Tool (ICT):

- Point your Web browser at http://192.168.6.6. (Note: default user name for logging in is "install" and the password is "install")

- Configure the correct IP address for this IPSDC. Static IP recommended (Controller Parameters => Primary Network)

- Enter the IP address of your TruPortal™ System Controller (the one chosen during Step 2.2). (Controller Parameters => Panel Configuration)

- A few minutes after restarting the device, your IPSDC is ready to be "discovered" by the System Controller. See Step 3.2

- Repeat for other IPSDCs

3.1   Log-in via Web browser
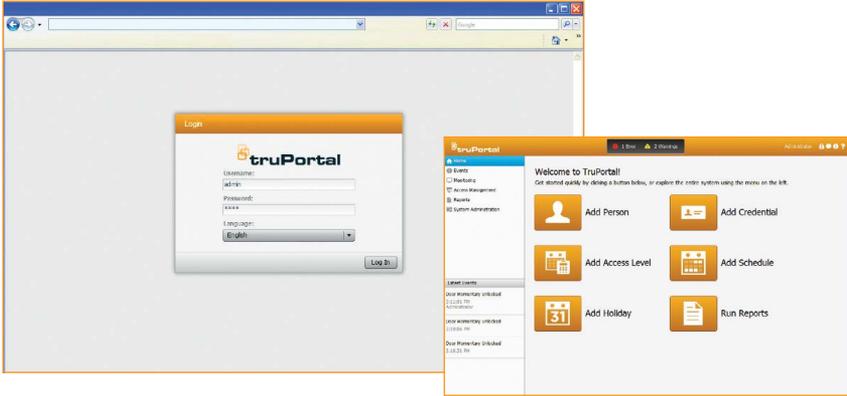
- Use your Web browser to navigate to the IP address configured in Step 2.2
- Log-in using admin password (Note: default user for logging in is "admin" and the password is "demo")
- Accept any certificate/security warnings presented by the Web browser
- Read and accept the End User License Agreement

3.2 Finalize hardware configuration
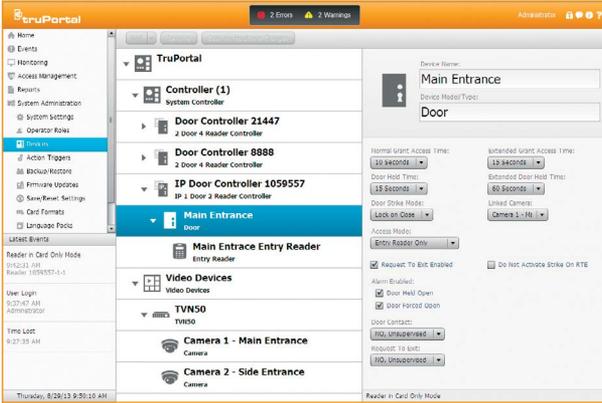
**On the System Administration => Devices page**

- Discover any installed and connected add-ons by clicking the "Scan for Hardware Changes" button
- Provide meaningful/logical device names (recommended)
- Add video devices to system (Recorders and Cameras); access control hardware may also be added manually without using the discovery feature

On the System Administration => Systems Settings page

- Enable time synchronization with Network Time Protocol (NTP) server (recommended)
- Configure security parameters

3.3 Use Wizards to add persons, credentials, access levels, schedules, etc.
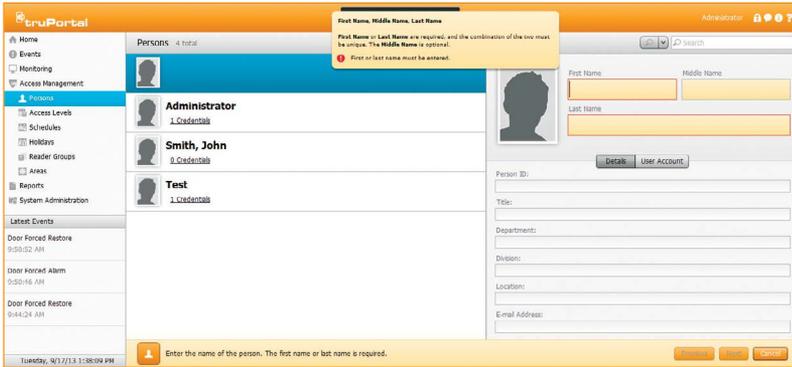
- From Home screen, click **Add Person** to launch the Add Person Wizard. Follow the prompts to add one or more persons
- Use the other wizards on the Home page to create access levels, schedules and holidays *(Suggested: create a master access level with sublevels)*
- Wizard use is optional — you may visit the various pages directly

3.4 Check for firmware updates (recommended)
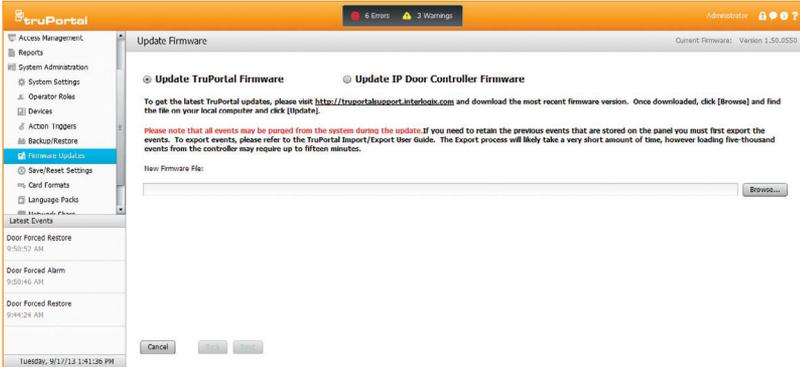
- This step is optional but recommended to ensure that the latest firmware is loaded

- From the navigation menu, click **System Administration**, then **Firmware Updates**. Visit the link on that page to download the latest firmware

NOTES

Use this area to record important information, including username and password.

IP Address: _____

Username: _____

Password: _____

Notes:

Document the physical location of each device by serial number

As each door configuration (locks, sensors, readers) is installed, provide a description for each, and list the serial numbers of devices associated with each door. This will assist you later when performing the detailed configuration, naming the devices, reader groups and areas when you configure the devices on the System Controller.

Door description	Reader serial numbers	Door controller serial numbers	I/O Expander serial number	Linked camera
	In:			
	Out:			
	In:			
	Out:			
	In:			
	Out:			
	In:			
	Out:			
	In:			
	Out:			
	In:			
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